

# USER INSTRUCTION MANUAL

## G-WINCH

Manually Operated Winch for the  
Lifting of Personnel

Suitable for Frequent Raising /  
Lowering of Personnel

Directive 2006/42/EC



**CE**  
**0353**



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**EC DECLARATION OF CONFORMITY**

Globestock Engineering Ltd  
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declares that the Equipment described hereafter

“G-Winch and Accessories” for the Raising & Lowering of Personnel. Model Number 070, covering the G-Winch with up to 250kg maximum working load, including pulleys and brackets.

has undergone an EC Type Examination and found to be in accordance with EC Council Directive 2006/42/EC on Machinery, EC Type Examination Certificate MDC915.

These models are described in the manufacturer’s technical file “G-Winch and Accessories” dated 15<sup>th</sup> April 2011.

Is identical to the Equipment which is the subject of Certificate of Adequacy No MDC914, issued by:

SGS United Kingdom Ltd.  
Unit 10  
Bowburn South Industrial Estate  
Bowburn  
Durham, DH6 5AD  
United Kingdom

This equipment designed and manufactured by Globestock Ltd. has been assessed and certified as meeting the requirements of EC Machinery Directive 2006/42/EC, under the supervision of the notified body, SGS United Kingdom Ltd., Notified Body Number: 0353.

Standards used for reference are: BS EN1496:1996, sections 4.4, 5.2, 5.3 and 5.4,  
BS EN1496:2006 section 7.

Authorised signatory of manufacturer, and authorised EU representative responsible for technical file,

4<sup>th</sup> August 2011,  
Oswestry, Shropshire, UK

Robert Elwin  
Managing Director  
Globestock Ltd.



# USER INSTRUCTIONS

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Examination Record

Rear Inside Cover

Specifications

Rear Cover



# 1. **IMPORTANT NOTICE**

READ EQUIPMENT LABELS AND 'USER INSTRUCTIONS' BEFORE USING THIS PRODUCT.

BEFORE USING THIS EQUIPMENT IT IS ESSENTIAL THAT USERS ARE FULLY AWARE OF HOW THE EQUIPMENT OPERATES, WHERE IT SHOULD BE USED, WITH A PREDETERMINED ACTION PLAN FOR BOTH THE USE AND RECOVERY SHOULD AN EMERGENCY ARISE.

This product has been developed to enable the safe entry of personnel into a restricted access or confined space. Recommended use is in conjunction with a G-Saver II fall arrest and retrieval device, to protect against potential falls occurring during use. The G-Saver II also provides a backup retrieval system for use in an emergency or an unforeseen occurrence.

This equipment is for use where other means of access are not practical.

When in use please observe the Maximum Working Load of both the G-Winch model and the anchorage device or structure. The person raised or lowered should never be left to work alone. There must always be another person present to supervise and operate the G-Winch.

Both the person being raised/lowered and the equipment operator should be adequately trained.

## **PRIOR TO USE:**

A formal 'Risk Assessment' should be carried out, considering use and the emergency rescue procedure.

Users should be fully conversant with the operation of the equipment.

The 'Before Use Checks' should be performed (see section 3 – Inspection Before Use).

Verify that the maximum weight to be lifted is within the maximum working load of all equipment to be used.



## 2. G-Winch for the Lifting of Personnel

The G-Winch is a personnel winch fitted with a maximum of 50 metres of wire rope. For confined space use and for the routine raising & lowering of personnel. For Example: lifting personnel through areas of restricted access. It can be attached to the G-Tripod or similar EN795 anchorage device. It can be used where regular lifting is required.

The G-Winch is recommended for use in conjunction with a Fall Arrest and Retrieval device such as the G-Saver II. This system then incorporates EN360 fall protection, with an additional safety line to rescue the user in the event of an unforeseen occurrence.

Use in this manner provides the maximum level of safety possible.

There are two modes of operation.

- Normal personnel use, as shown, in the picture. Gear Ratio 1:8.9
- The winding arm can be fitted to the shaft at the other side, providing a fast mode for quickly winding cable in or out. This should only be used when a person is not attached to the G-Winch.

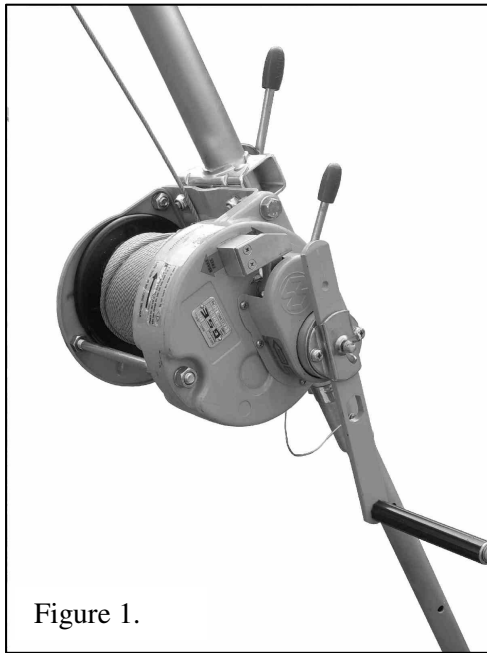


Figure 1.

The G-Winch has an anti-run brake to prevent the person supported or

load from falling to the ground should the winch operator release the winding arm.

The mechanism provides an easy winding action making personnel lifting easy. The G-Winch is tough and durable, with a long working life.

### 2.1 Anchorage Requirements

Use of an EN795 anchor device, such as the G-Tripod is recommended. Suitable brackets are available. In any case the structure must be of adequate strength or rating to accommodate the weight lifted. Beware of anchorages designed for materials handling, they generally have lower strength requirements than should be used for lifting people.

Custom brackets used to adapt the G-Winch to fit an anchorage structure must be of adequate strength. If in any doubt contact your supplier or the manufacturer for advice.



### 3. Inspection Before Use

Before using the G-Winch inspect as follows.

#### **Inspection**

1. With the G-Winch mounted on an EN795 anchorage device such as the G-Tripod. Inspect the mounting brackets.
2. With the winding arm removed from the winch, lift and hold up the pawl so as to disengage the anti-run brake. Pull wire rope off the drum, releasing the pawl. The Anti-Run brake should engage and lock firmly preventing further rope from being pulled off the drum.
3. Attach the winch arm. Check that it is firmly held in place by the locking screw. Rotate the winch arm to spool rope onto the drum. An audible clicking should be made by the pawl to confirm the correct functioning of the anti-run brake.
4. Inspect the entire system for any signs of damage, wear or malfunction.
5. Inspect the wire rope. No kinks, broken strands or excessive wear should be observed.
6. Ensure the rope's safety hook is free of damage and functions correctly, the gate locks positively.

**Before operating and During Use of the G-Winch** visually check the equipment and the path of the wire rope to ensure no fouling. The person raised / lowered and the winch operator both need to be vigilant before and during use. It is then safe to rotate the winding arm.

### 4. Considerations for Use

- Do not Exceed the Maximum working load of the G-Winch model.
- Should any doubt arise about the safe condition of this device **DO NOT USE**. Return to Globestock or a Globestock authorised servicing agency for assessment, service and re-certification, before further use
- The G-Winch weighs approximately 21kg. Manual handling and attaching to the G-Tripod should be performed by 2 people.
- This equipment must be used by at least two people, one to operate the winch as the other is lowered / raised.
- The G-Winch operator should maintain communication at all times with the person being lowered / raised.
- The G-Winch may only be used by trained or otherwise competent persons.
- Personnel Protective Equipment should be worn when using this equipment. For Example: Gloves, Safety Glasses, safety shoes, etc.
- Wear gloves to protect your hands when inspecting or handling the wire rope.



- During a lifting operation keep hands clear of the rope drum, as the winch line pulled onto the drum can trap and cause injury to fingers.
- The G-Winch should only be used within the temperature range of  $-15^{\circ}$  to  $60^{\circ}$  centigrade. If the intended use is outside of this range then consult supplier or manufacturer for guidance.
- The G-Winch is recommended for use in conjunction with a Fall Arrest and Retrieval device such as the G-Saver II. This provides a secondary safety line, with fall protection and emergency retrieval, ensuring maximum safety of the person being raised or lowered
- Ensure the path of travel of the person to be raised or lowered, is free of obstructions.
- Attach the rope's safety hook directly to the person's body harness attachment point or the connection point on the carrier.
- Do not allow slack cable during use. This cable may tangle or foul, hindering the safe retrieval of the user and it may make it possible for the user to fall, causing fatal injury.
- Do not allow the rope safety line to pass over sharp edges, electrical items/cables.
- Do not allow the rope safety line to become frayed or to kink as this weakens the rope.
- A clearly understood, predetermined action plan should be in place and implemented in the event of an emergency.
- Do not disengage the Anti-Run Brake while the G-Winch is under load.

## 5. Setup for Use

If in any doubt please contact either a specialist or Globestock for advice.

Connect the G-Winch to a suitable anchorage such as an EN795 device. The G-Tripod is the ideal anchorage device. The additional use of a G-Saver II provides an additional safety line, giving the maximum level of safety.

The equipment should be inspected and setup in a safe area. All pre-use checks must be completed before the assembly can then be moved into place by two or more people, so that it is ready for use. Perform a final visual inspection, and the equipment is ready to use.

**Before operating the G-Winch** visually check the path of the wire rope and the equipment to ensure no fouling. Check with the user to ensure he/she is ready. It is then safe to rotate the winding arm.

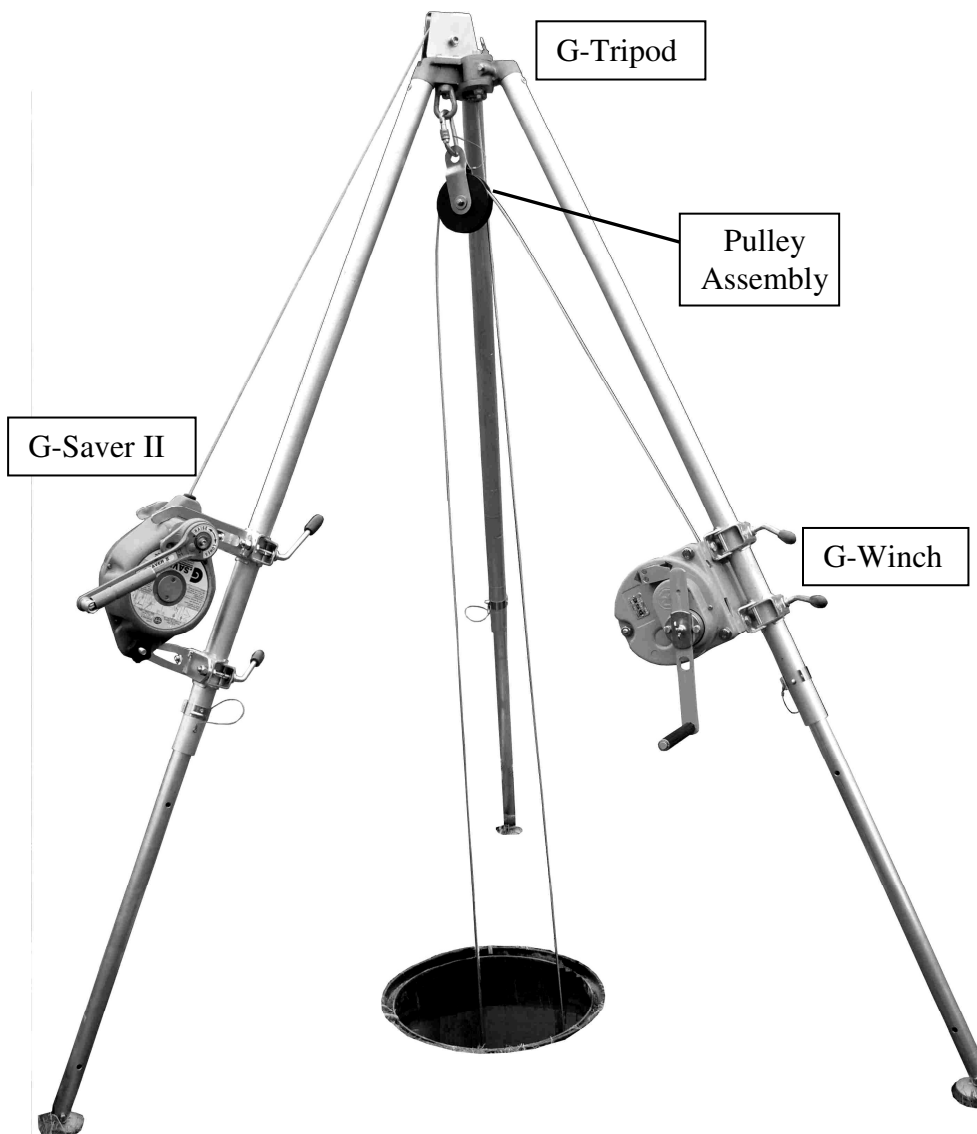


## 5.1 Attaching to the G-Tripod (See Figure 2, Page 6)

1. The G-Tripod should be opened up and set down on it's feet at the lowest setting.
2. Lay the G-Winch next to one of the side legs of the G-Tripod and lay the G-Saver II next to the fixed leg.
3. Pull back the G-Winch's pawl and hold, so the anti-run brake is temporarily disconnected. Pull 3 metres of rope off the drum.
4. Fit the rope through the pulley assembly, then attach the pulley assembly to the Anchorage point underneath the Tripod head. Ensure the screw gate of the karabiner is securely locked.
5. Fit the rope of the G-Saver II, over the pulley on top of head of the G-Tripod, and secure.
6. Raise the G-Tripod to the required height. Take the first leg and extend it to the first intermediate setting. Then take the second leg, extend it to the desired height and repeat with the third leg. Finally adjust the first leg so all legs are at the same height.
7. Attach the G-Saver II to the upper fixed leg of the G-Tripod, as shown in the picture, figure 2.
8. With the G-Winch on the ground, unscrew the mounting bracket lever arms, so that the winch is ready to fit to the G-Tripod.
9. Attaching the G-Winch to the G-Tripod is best performed by two people. Lift together, the G-Winch onto the top of the tripod leg.
10. One person holds the winch in place, with the weight of the winch supported by the tripod leg. The other person fastens the brackets to hold the winch onto the leg.
11. With the brackets loose, the winch is rotated around the leg so that it is on the underside, in line with the path of the rope and the pulley. Both brackets are then securely tightened.
12. Both the ropes hanging at the centre of the tripod can be attached back to their respective devices, taking up slack wire rope.
13. The Access System can then be visually inspected before moving into place over the access hole.



Figure 2. – Attaching to the G-Tripod





## 6. Inspection & Maintenance

Like all safety critical complex mechanical devices, the G-Winch requires regular inspection and maintenance to ensure that the unit functions safely and correctly. Repairs or servicing should never be carried out on site or in the field. Do not tamper with or modify the unit.

### 6.1 Periodic Inspection

The G-Winch should be periodically inspected by a competent person at **least once in every 6 months** dependant upon the frequency of use and the operating environment. The 'Inspection Record' found on the page opposite in this booklet, outlines the main examination criteria. On passing this detailed inspection the record opposite can be completed, signed off and the unit returned for use. Any observed faults must be rectified. If necessary or **in any doubt**, return the G-Winch for service, test and re-certification.

### 6.2 Service, Test & Re-Certification

The G-Winch must be returned for servicing annually or if any doubt should arise concerning the units condition. Globestock or a Globestock approved servicing agency can be used for this. On completion of a service and retest, a new Test Certificate will be issued which validates the unit for a further year of use.

### 6.3 Cleaning, Storage and Transportation

The G-Winch's exterior may be cleaned using warm water with a mild detergent. It should then be allowed to dry.

In order to maintain the wire rope safety line, remove any soiling. Apply a little light oil to a cloth. Hold the cloth around the rope, allowing the rope to pass through the cloth. This will leave the rope lightly oiled.

The unit should be stored in a clean, dry, chemical free environment.

When transporting the G-Winch, it should be boxed or retained to prevent damage or deterioration.





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